

RADIOCHEMISTRY TECHNICIAN JOB PERFORMANCE MEASURE

TASK CODE: TRC-A09

TASK: Respond to Radiochemistry Laboratory Off-Normal Events

NAME: _____ **SSN:** _____

REFERENCES:

1. WP 12-HP2000, Emergency Radiological Control Operations
2. WP 12-RL1001, Sample Tracking and Custody
3. General Employee Training
4. Hazardous Waste Worker Training
5. CF-2.09, Laboratory Safety
6. OPS-115, Conduct of Operations

TERMINAL OBJECTIVE:

Given a situation resulting in one of the following conditions, respond to the Counting Room off-normal event.

1. A loss of a radioactive source
2. A spill of radioactive material
3. A loss of a sample
4. Fire in the lab
5. A spill of hazardous material
6. Uncontrolled spread of contamination

CONSEQUENCES OF INADEQUATE PERFORMANCE:

Uncontrolled release of radioactive material
Failure to maintain confidentiality of a sample
Equipment damage

HAZARDS (PERSONNEL/EQUIPMENT STATUS):

Uncontrolled release of radioactive material
Personal injury

PRE-REQUISITE TRAINING/ TASK COMPLETION:

1. CF 4.00 Series
2. CF 2.00 Series
3. RAD-201, Radiological Worker Training
4. CL 2.08, Radioactive Source Control
5. HWW-101, Hazardous Waste Worker Training
6. GET-197, General Employee Training
7. OPS-115, Conduct of Operations

TOOLS/EQUIPMENT (MATERIALS REQUIRED):

1. None

Instructions to Trainee: You shall acquire the necessary references and equipment, and complete all required documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

Instructions to JPM Evaluator: The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

KNOWLEDGE REQUIREMENTS:

Reference	Knowledge Requirement	Pass/Fail
1	Discuss how a radioactive source is known to be missing.	
2	Discuss the implications concerning confidentiality if a sample is missing.	
1	State the potential sources of radioactive material in the Radiochemistry Lab.	
1	State how a sample could result in a spill of radioactive material.	
1	State how a liquid scintillation standard could result in a spill of radioactive material.	
1	Describe the potential problems associated with a loss of a sample	
4	Describe the indications of a hazardous spill.	
5	State where the nearest fire pull stations are located in the Radiochemistry Lab.	
5	State where the fire extinguishers are located in the Radiochemistry Lab.	

5	State the type of fire extinguishers located in the Radiochemistry Lab.	
Reference	Knowledge Requirement	Pass/Fail
5	State where the spill kits are located in the Radiochemistry Lab.	
3	State who will respond to a fire in the Radiochemistry Lab.	
6	State the reporting requirements for off-normal events.	
5	State the location of the testing requirements for the shower/eye wash station.	

PERFORMANCE REQUIREMENTS:

Reference	Performance Requirement	Pass/Fail
1	Loss of a Radioactive Source or Radioactive Material	
1	Notify the CMRO and OHP.#	
1	Initiate a Lost Radioactive Material Notification Sheet.#	
1	Conduct a search.#	
1	Evaluate the event to prevent recurrence.#	
2	Loss of a Sample	
2	Notify Chemistry Team Leader.#	
2	Conduct a search.#	
2	Evaluate the event to prevent recurrence.#	
1	Spill of Radioactive Material	
1	Stop the spill, stop work, place work in a safe condition.#	
1	Warn others.#	
1	Isolate the area, attempt to contain the spill.#	
1	Minimize exposure.#	
1	Notify CMRO and OHP.#	
3	Fire in the Radiochemistry Lab	
3	Evacuate the area.#	
3	Notify all coworkers in the immediate area.#	
3	Notify the CMRO.#	

3	Provide information to the EST and other responders.#	
Reference	Performance Requirement	Pass/Fail
4	Spill of Hazardous Material	
4	Control or Contain the spill if it can be done safely.#	
4	Report to the CMRO.#	
4	Evacuate the area, restrict access to the area.#	
4	Provide information to the EST and other responders.#	

indicates a critical step

FINAL EVALUATION:

PASS

FAIL

COMMENTS:

EVALUATOR SIGNATURE:

DATE:_____

TRAINEE SIGNATURE:

DATE:_____

MANAGER SIGNATURE:

DATE:_____